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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/019,263 12/28/2001		12/28/2001	Akira Matsumori	2001-1881A	1315	
513	7590	04/29/2004		EXAMINER		
	,	ND & PONACK, L	HUI, SAN MING R			
2033 K ST SUITE 800		w.	ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20006-1021				1617		
				DATE MAILED: 04/29/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)					
		10/019,2	63	MATSUMORI, AKIRA					
	Office Action Summary	Examine	r	Art Unit					
		San-ming	Hui	1617					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commus period for reply specified above is less than thirty (30) operiod for reply is specified above, the maximum state to reply within the set or extended period for reply wreply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no ex nication. d days, a reply within the sta utory period will apply and vill, by statute, cause the app	vent, however, may a reply be ti tutory minimum of thirty (30) da vill expire SIX (6) MONTHS fron plication to become ABANDONI	imely filed sys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).					
Status									
1)[Responsive to communication(s) filed	l on <u>24 December 2</u>	<u>2003</u> .						
2a)🔀	This action is FINAL . 2	b)[]] This action is r	non-final.	•					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
5)□ 6)⊠ 7)□	4) Claim(s) 25,27,28 and 33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 25, 27, 28, and 33 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers								
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	a) accepted or b tion to the drawing(s) the correction is requi	be held in abeyance. Se red if the drawing(s) is ol	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
2) Notice 3) Information	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F or No(s)/Mail Date		4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:						

Art Unit: 1617

DETAILED ACTION

This application is a 371 of PCT/JP00/04286, filed June 28, 2000. this application also claimed priority to Japan 185297/1999, filed June 30, 1999.

Applicant's amendments filed December 24, 2003 have been entered. The cancellation of claims 26, 29-32, and 34-36 is acknowledged.

Claims 25, 27, 28, and 33 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 25, 27, 28, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai et al. (WO 98/37875, its English traslation US Patent 6,277,888 is provided in the IDS received March 27, 2002) in view of Merck (The Merck Manual, 16th ed., 1992, page 2370-2371).

Art Unit: 1617

Sakai et al. teaches 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol or its hydrochloride salt is useful in treating viral hepatitis such as hepatitis B, non-A/non-B hepatitis (See col. 2, lines 37-38; col. 5, line 28-39). Sakai et al. also teaches that the herein claimed compound is useful as treating infectious diseases caused by pathogenic microorganisms (see col. 4, line 27-28; also col. 5, lines 41-44). Sakai et al. teaches 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol is useful in treating necrosis induced by toxin or the viral hepatitis (See col. 5, line 38). Sakai et al. teaches 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol is useful in treating eye disease such as conjunctivitis (See col. 4, lines 51-59).

Sakai et al. does not expressly teach 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol is useful in treating viral myocarditis caused by hepatitis virus, orthomyxovirus or picornavirus.

Merck teaches conjunctivitis can be caused by enterovirus, which belongs to the family of picornavirus (See page 2370).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol or its hydrochloride salt to treat viral myocarditis caused by hepatitis virus, orthomyxovirus or picornavirus.

One of ordinary skill in the art would have been motivated to employ 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol or its hydrochloride salt to treat viral myocarditis caused by hepatitis virus, orthomyxovirus or picornavirus. 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol is known to be useful in treating infectious diseases

Art Unit: 1617

and hepatitis B infection (i.e., viral infection caused by hepatitis B virus in the liver). Therefore, employing 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol to treat viral myocarditis caused by hepatitis B virus, which is viral infection caused by hepatitis B virus in the heart muscle, would have been reasonably expected to be effective since the causative agent is hepatitis B virus, absent evidence to the contrary. Furthermore, one of ordinary skill in the art would have been motivated to employ 2-amino-2-[2-(4-octylphenyl)ethyl]propane-1,3-diol to treat viral diseases caused by orthomyxovirus or picornavirus. Since the herein claimed compound is known to be useful in treating conjunctivitis, which is a condition caused by picornavirus (conjunctivitis), employing the herein claimed compound in treating diseases caused by picornavirus, such as the infection in the heart (myocarditis), would be reasonably expected to be useful.

Response to Arguments

Applicant's arguments filed December 24, 2003 averring the herein claimed compound's effectiveness of treating hepatitis depending on the liver regeneration and/or promoting hypertrophy and hyperplasia of hepatocytes have been fully considered but they are not persuasive. Examiner notes that the herein claimed compound is also known to be useful in treating various viral infectious disease. Furthermore, Sakai et al. does not exclude the effectiveness of the herein claimed compound against hepatitis virus. Therefore, possessing the teachings of the cited prior art, one of ordinary skill in the art would have reasonably expected to employ the herein compound in the treatment of viral myocarditis as recited.

Art Unit: 1617

Applicant's arguments filed December 24, 2003 averring the herein claimed compound's effectiveness of treating eye diseases only, but not myocarditis simply because they are different diseases have been fully considered but they are not persuasive. Examiner notes that the herein claimed compound as useful in treating infectious diseases and conjunctivitis, which is known to be caused by picornavirus. Therefore, possessing the teachings of the cited prior art, one of ordinary skill in the art would have reasonably expected to employ the herein compound in the treatment of viral myocarditis as recited.

Applicant's arguments filed December 24, 2003 averring the cited prior art's failure to provide reasonable expectation of success have been fully considered but they are not persuasive. As discussed above, the herein claimed compound is known to be useful in treating viral diseases including viral diseases caused by hepatitis virus and picornavirus. Although the cited prior art fails to expressly teach the usefulness of the herein claimed compound in treating viral infection of the heart, employing the herein claimed compound in treating viral infection caused by hepatitis virus and picornavirus in the heart (myocarditis), would be reasonably expected to be useful.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

Art Unit: 1617

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to San-ming Hui whose telephone number is (703) 305-1002. The examiner can normally be reached on Mon 9:00 to 1:00, Tu - Fri from 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan, PhD., can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Page 7

Application/Control Number: 10/019,263

Art Unit: 1617

San-ming Hui Patent Examiner Art Unit 1617